ABSTRACT OF THE DISCLOSURE:

[0062] In input and output enabling power estimating apparatus and method for a secondary cell, an input enabling power (P_{in}) of the secondary cell is estimated on the basis of parameter estimated values (θ) and an open-circuit voltage (Vo), and an output enabling power (P_{out}) of the secondary cell is estimated on the basis of the parameter estimated values and the open-circuit voltage (Vo), the parameters are integrally estimated from at least one of equations (1) and (2): $V = \frac{B(s)}{A(s)} \cdot I + \frac{1}{C(s)} \cdot Vo$ ... (1), wherein $A(s) = \sum_{k=0}^{n} a_k \cdot s^k$, $B(s) = \sum_{k=0}^{n} b_k \cdot s^k$, $C(s) = \sum_{k=0}^{n} c_k \cdot s^k$, s denotes a Laplace transform operator, A(s), B(s), and C(s) denote each poly-nominal of s (n denotes degrees), $a_1 \neq 0$, $b_1 \neq 0$, and $c_1 \neq 0$ and $V = \frac{B(s)}{A(s)} \cdot I + \frac{1}{A(s)} \cdot Vo$ ... (2), wherein $A(s) = \sum_{k=0}^{n} a_k \cdot s^k$ and $B(s) = \sum_{k=0}^{n} b_k \cdot s^k$.